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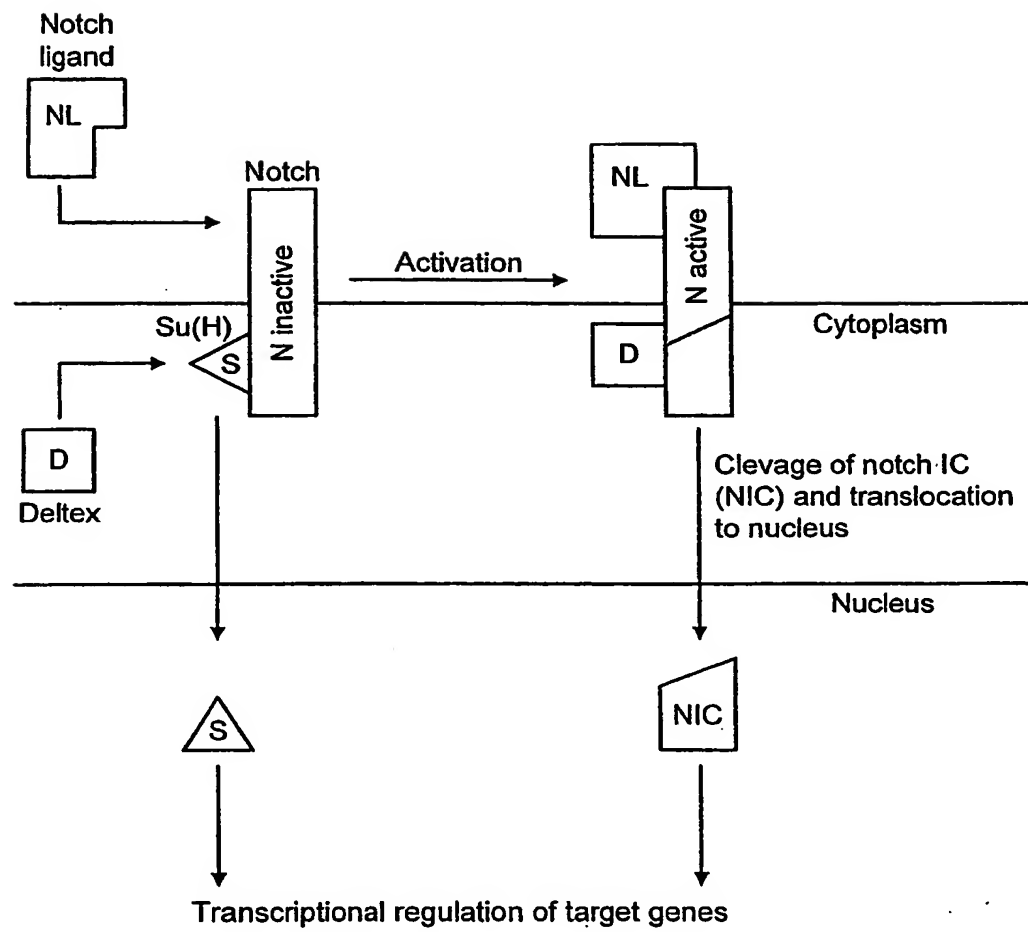


FIG. 1

FIGURE 3

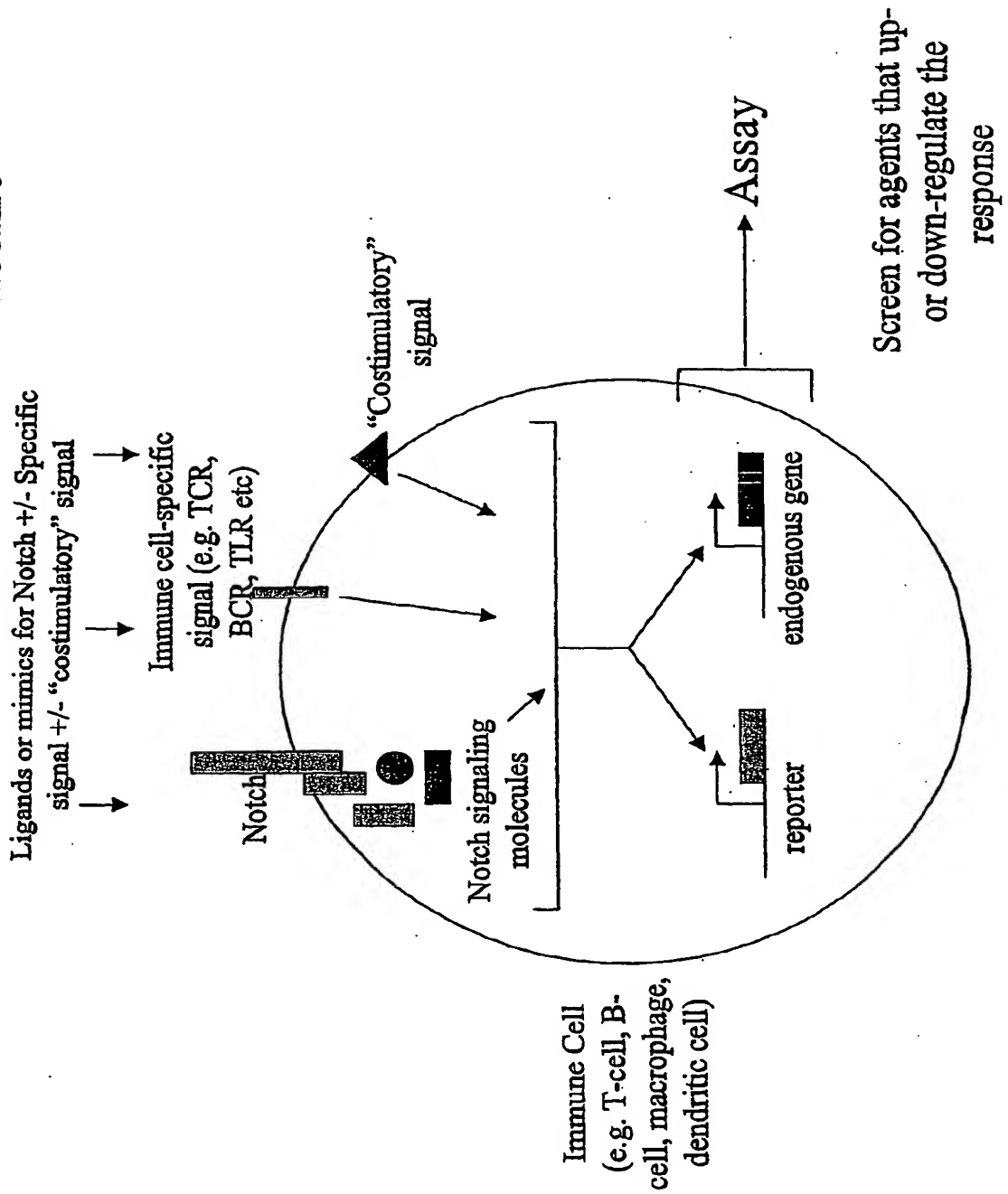


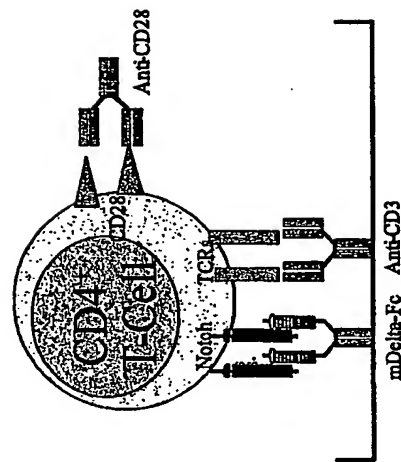
Figure 4

Figure 5

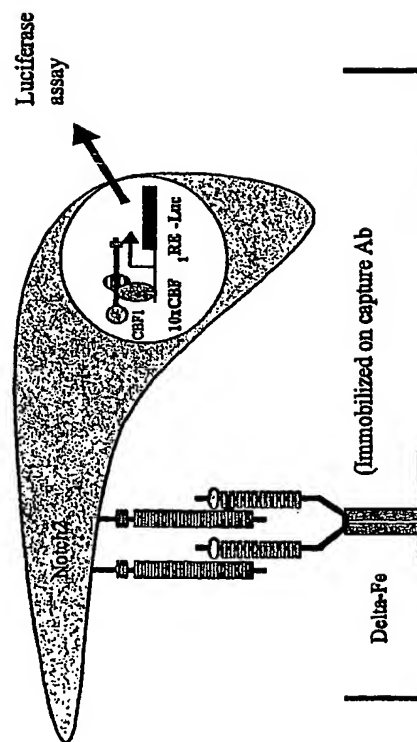


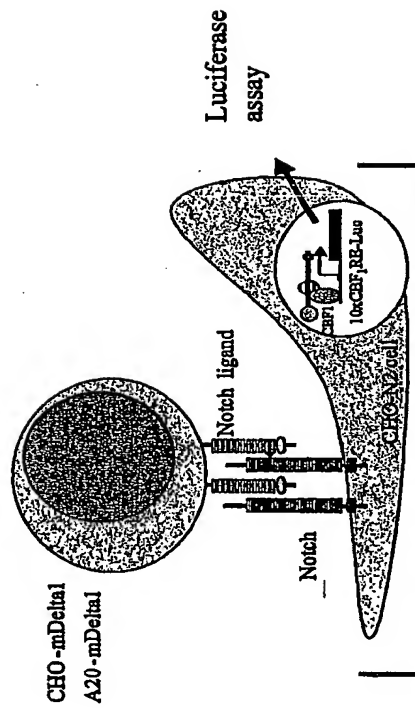
Figure 6

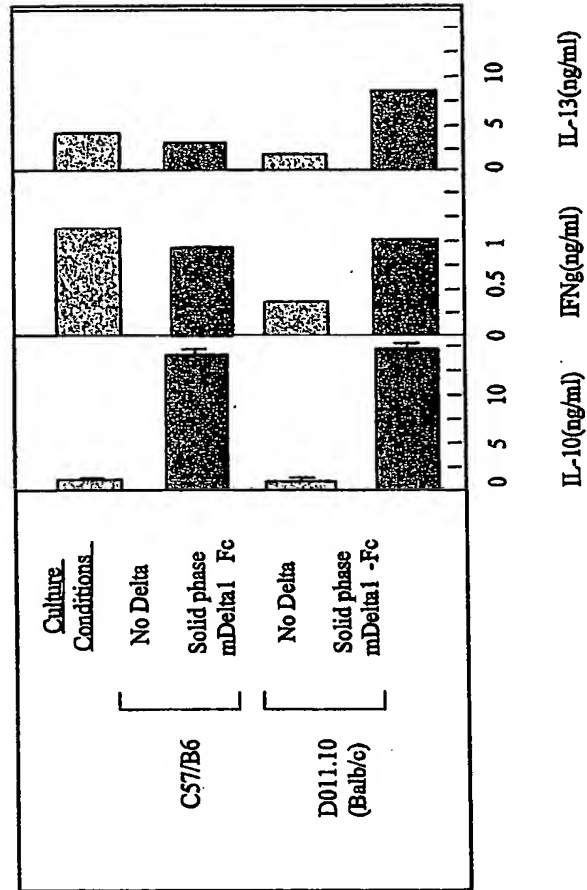
Figure 7

Figure 8

Relative expression of mHes1 in Cd4+ T cells



Figure 9

Cytokine production under polarising conditions

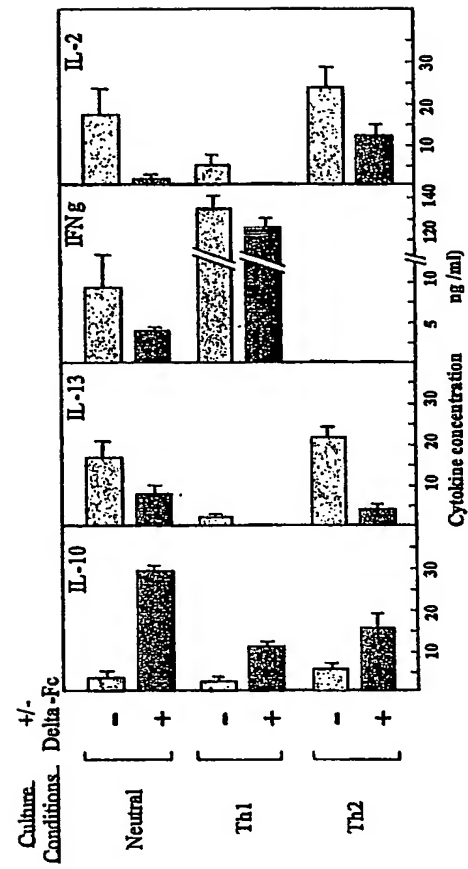


Figure 10

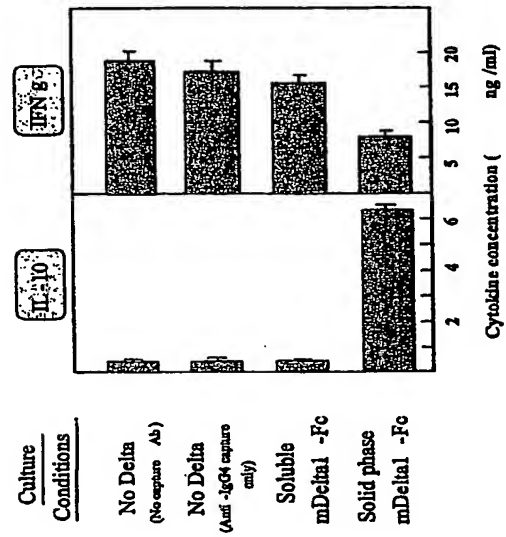


Figure 11

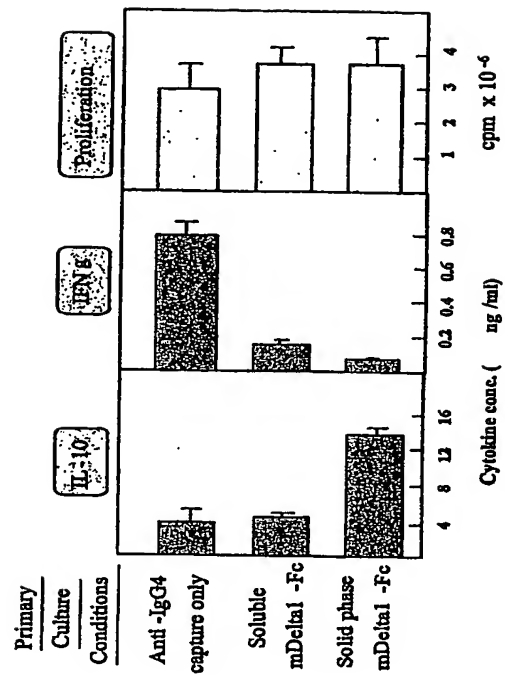


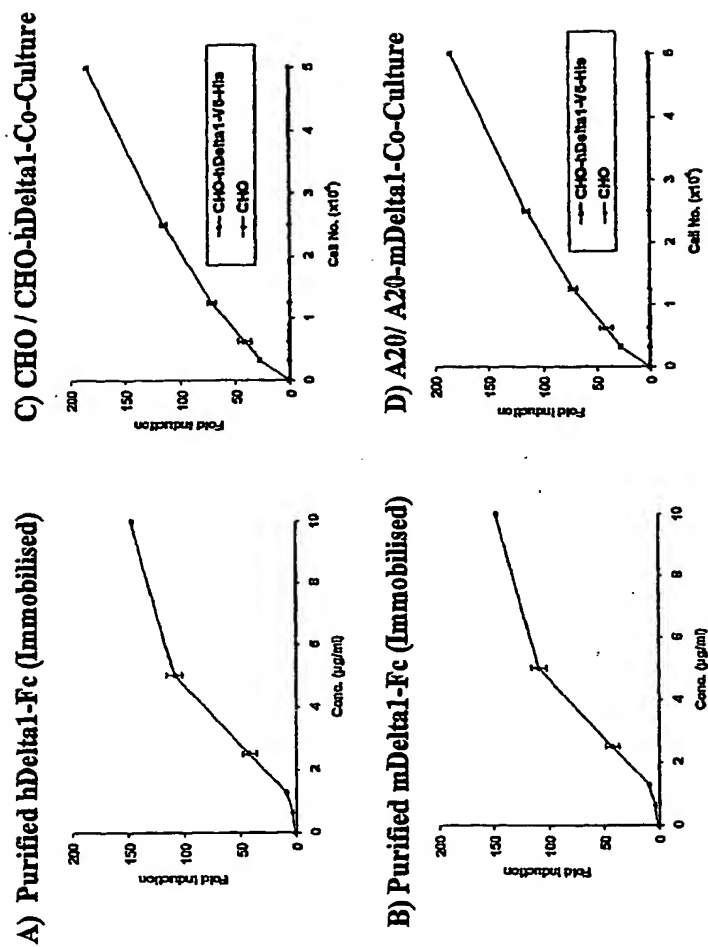
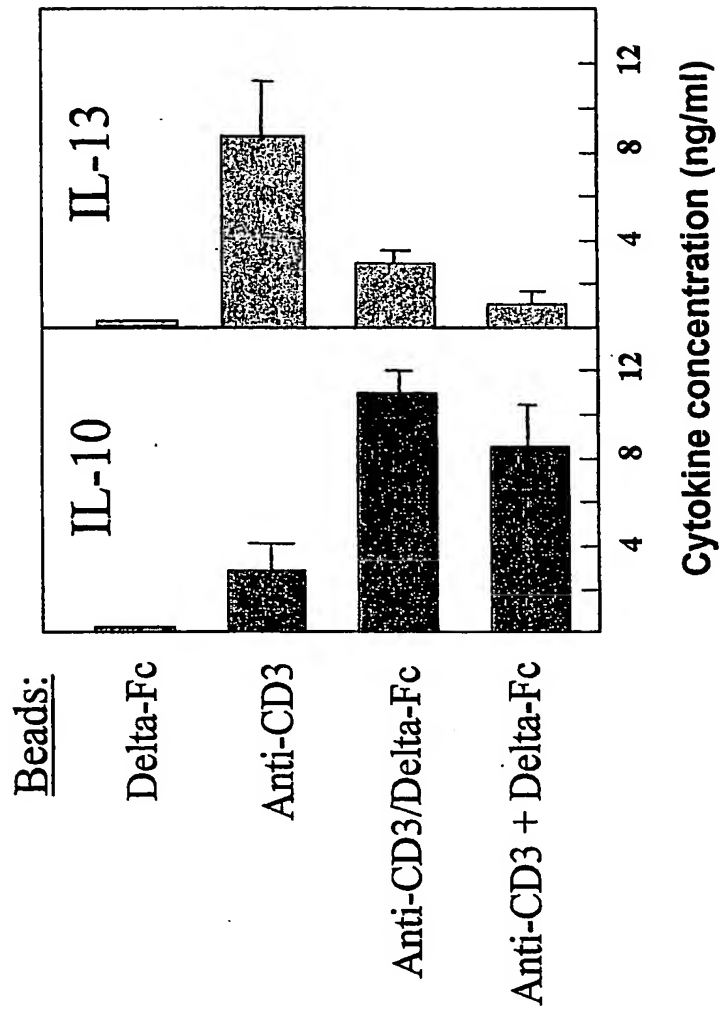
Figure 12

Figure 13: Delta-Fc coated beads modulate *in vitro* T-cell responses



CD4+ T-cells activated with beads coated as described plus soluble anti-CD28, 3d

Figure 14: Increase in IL-10 production in the presence of mouse or human Delta1 beads

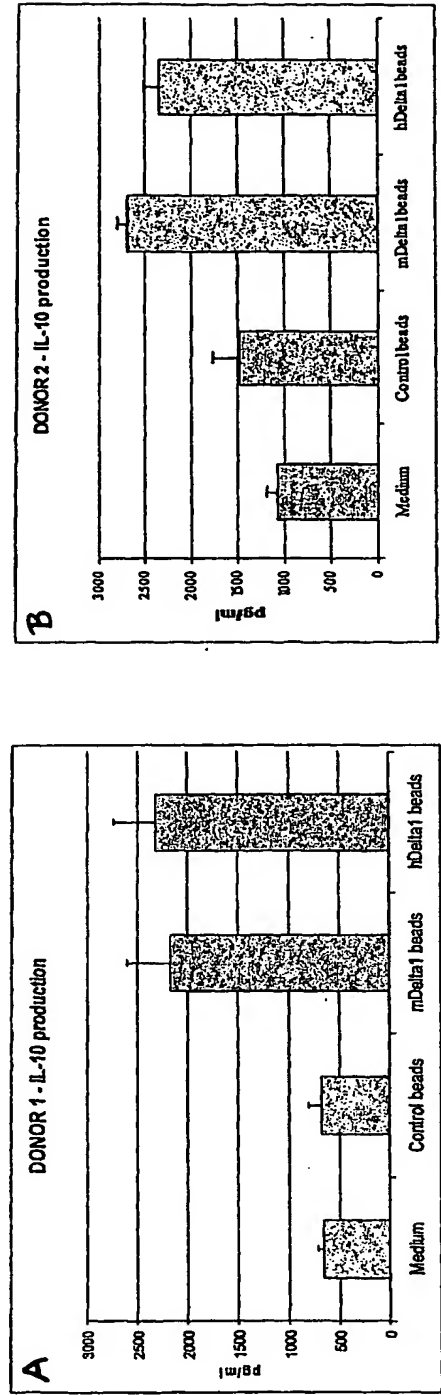


Figure 15: Decrease in IL-5 production in the presence of mouse or human Delta1 beads

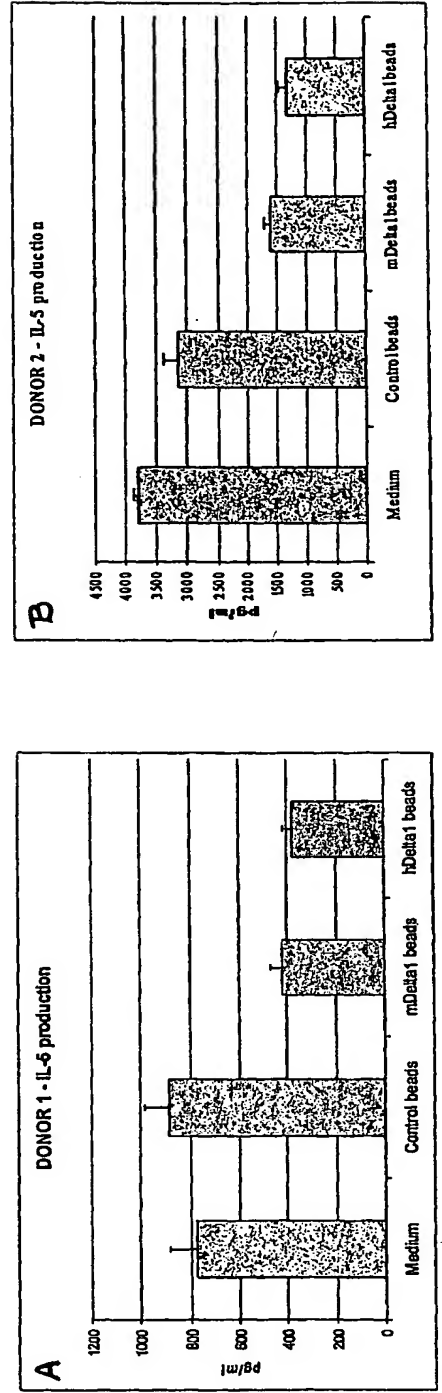


Figure 16: Increase in IL-10 production in the presence of mouse Delta1 beads

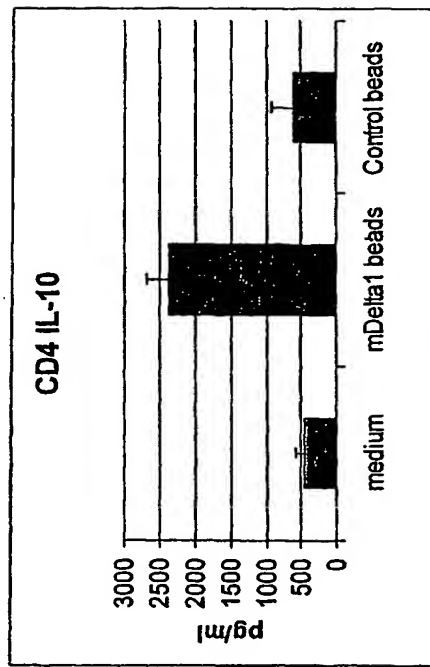


Figure 17: Decrease in IL-5 production in the presence of mouse Delta1 beads

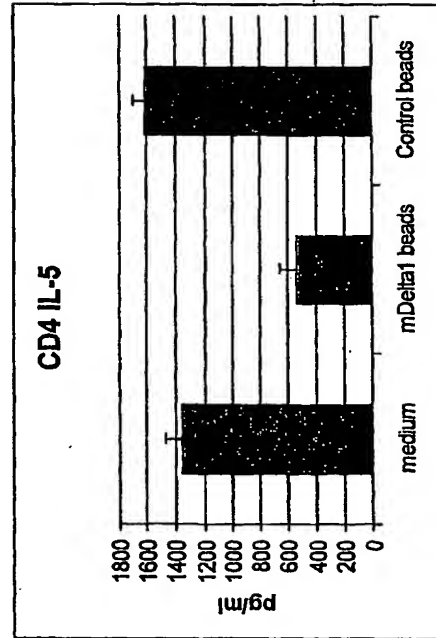
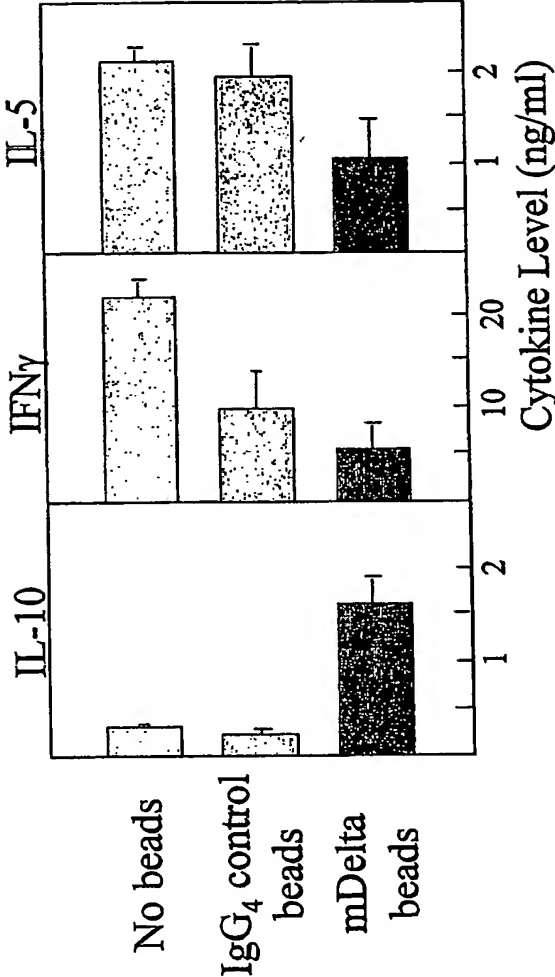
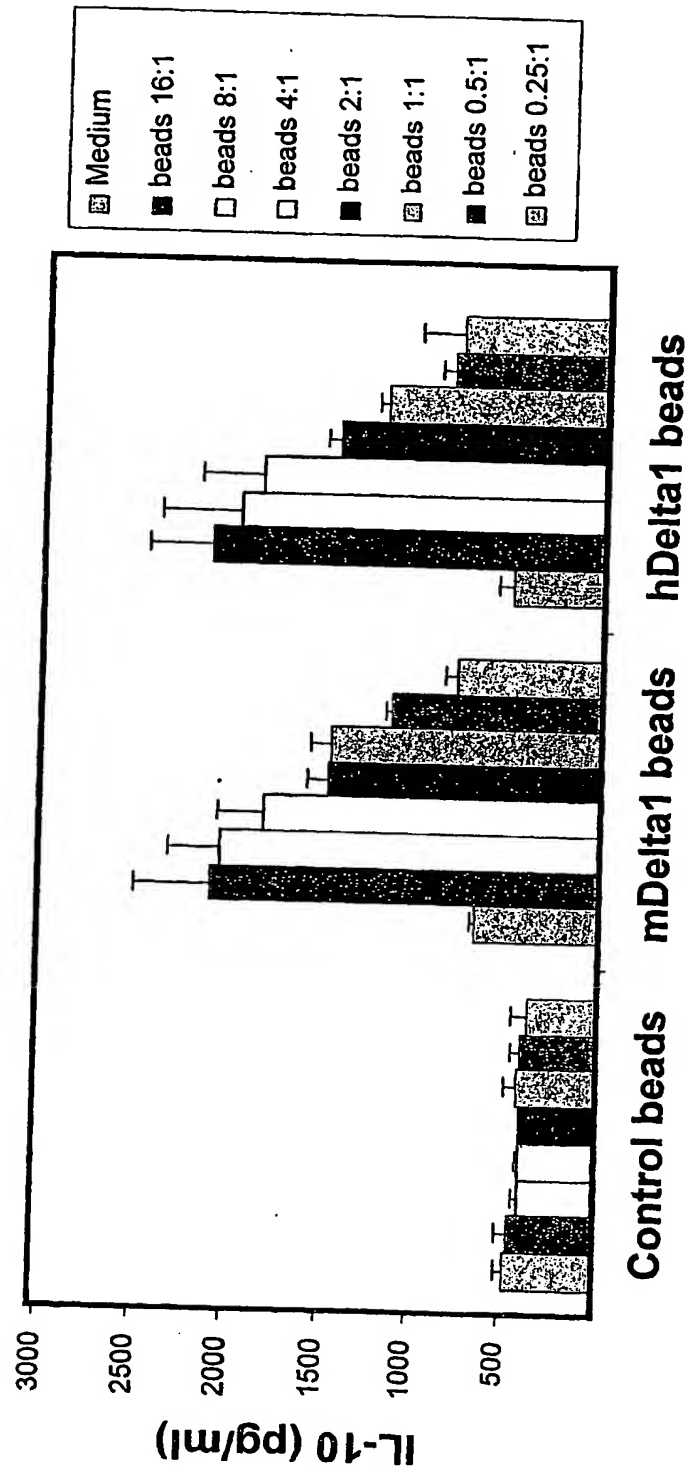


Figure 18: mDelta1-Fc Enhances IL-10 Production and decreases IFN γ and IL-5 Production by Human CD4⁺T-Cells



Human CD4⁺ T-cells stimulated with anti-CD3 + anti-CD28 with or without mouse Delta1-hlgG4-coated beads

Figure 19: Delta1 enhances IL-10 production by human CD4⁺ T-cells



Cells stimulated with anti-CD3/CD28 with or without Delta coated beads as shown
(medium only and then bead:cell ratios 16:1, 8:1, 4:1, 2:1, 1:1, 0.5:1 and 0.25:1
from left to right in each group)

Figure 20: mDelta1-Fc Enhances IL-10 Production and decreases IL-5 production by Anti-CD3/CD28 Activated Human CD4⁺ T-Cells

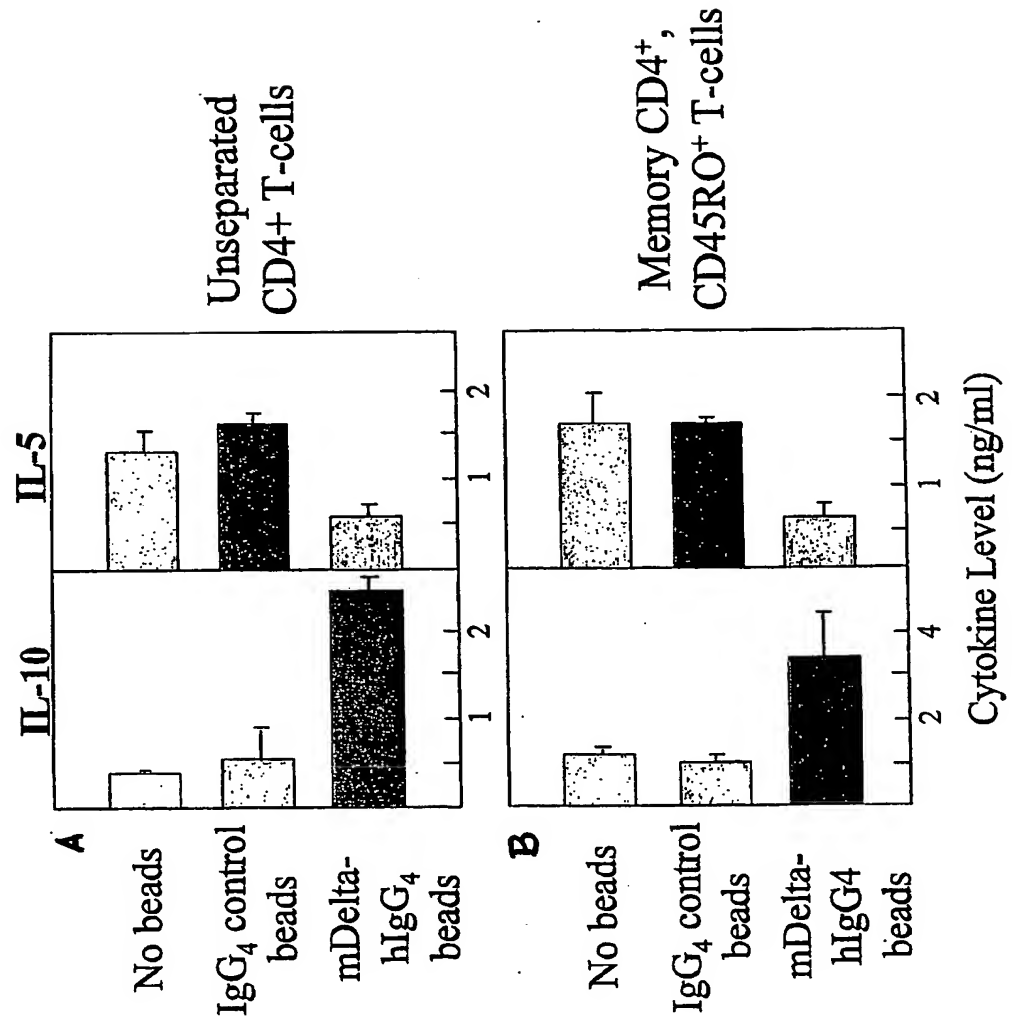


Figure 21: Delta-Fc enhances IL-10 production by murine CD4+ T-cells, even in presence of Th1 or Th2 cytokines

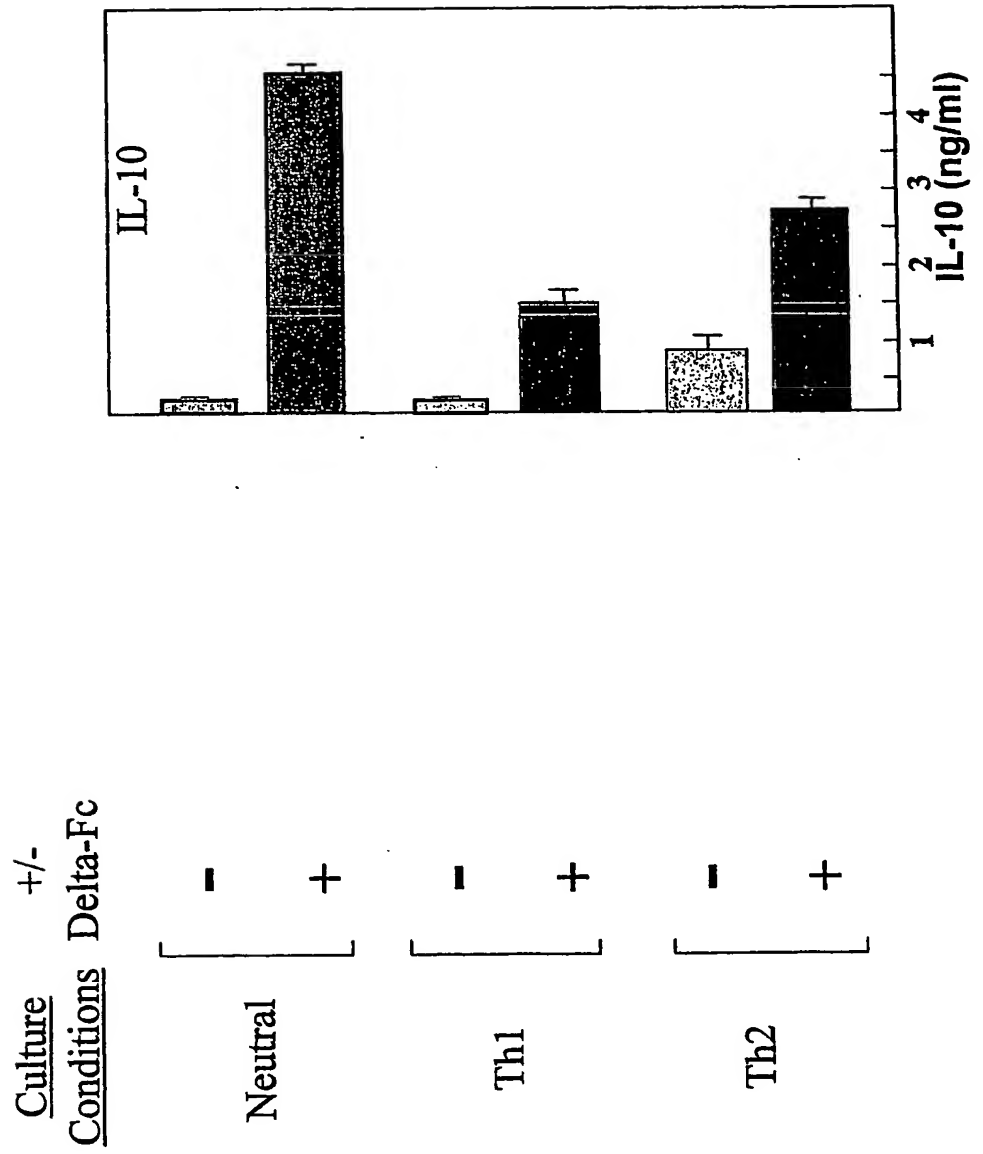


Figure 22: Micro-Array Profiling of Delta-Activated Genes in Jurkat T-Cells

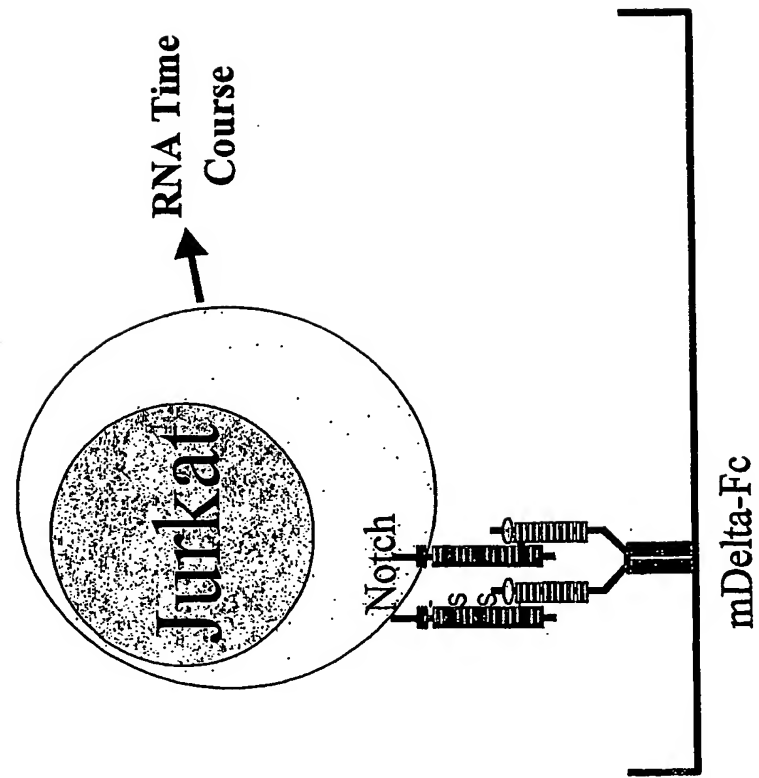


Figure 22A

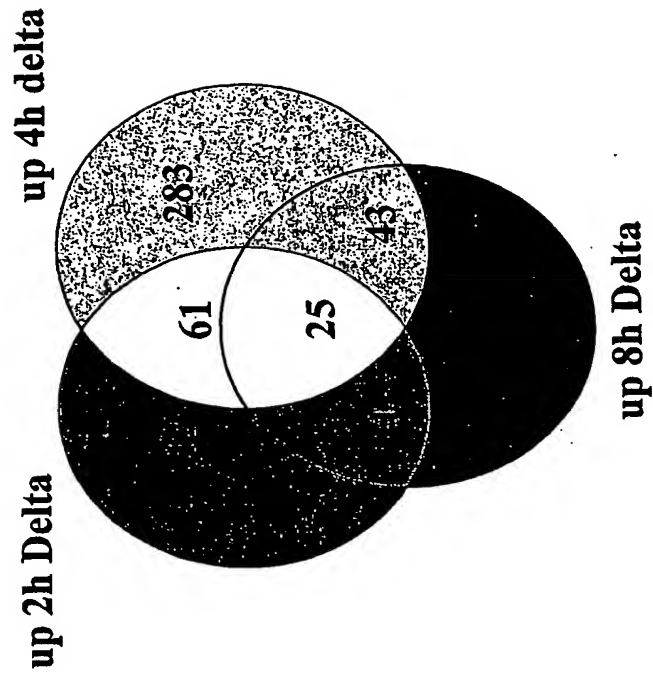


Figure 22B

Figure 23: Delta-Mediated Activation of Gene Expression in Jurkat T-Cells

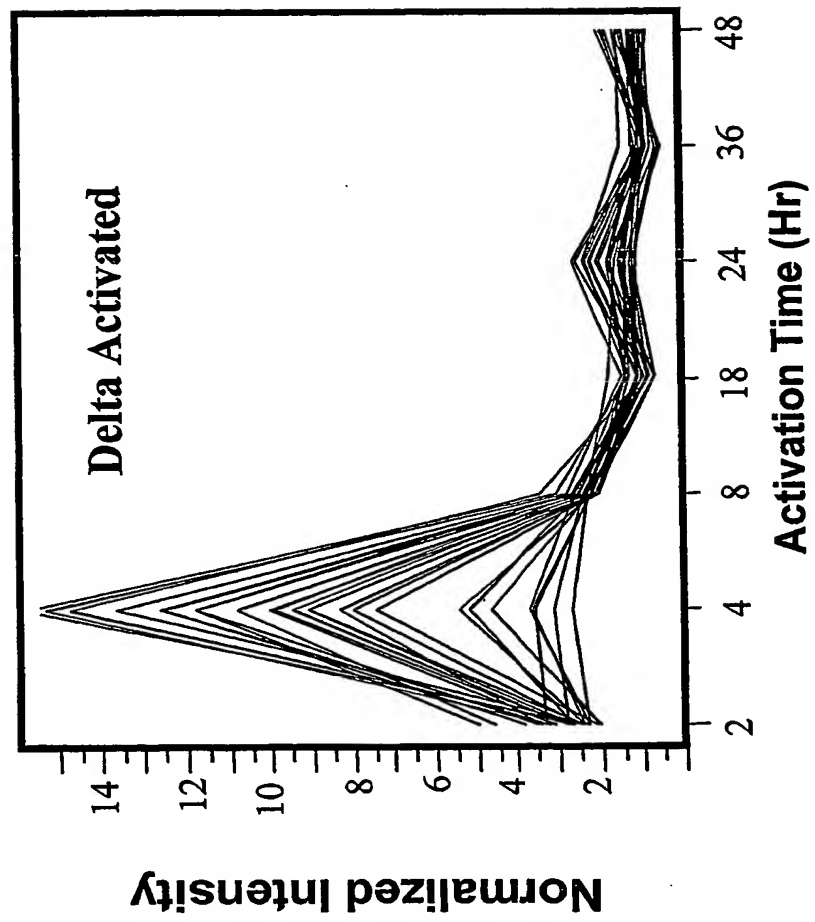


Figure 24: Micro-Array Profiling of Delta-Activated Genes in Jurkat T-Cells

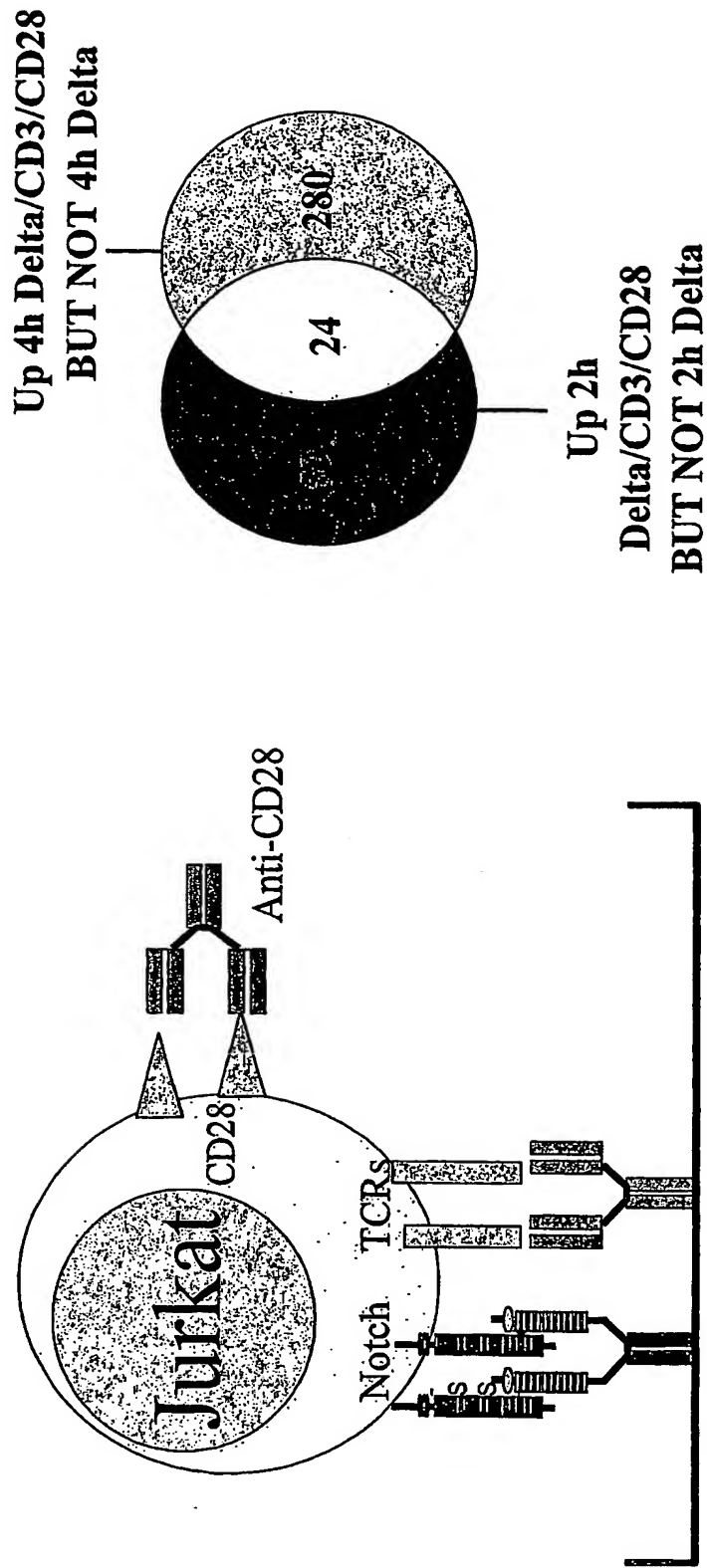
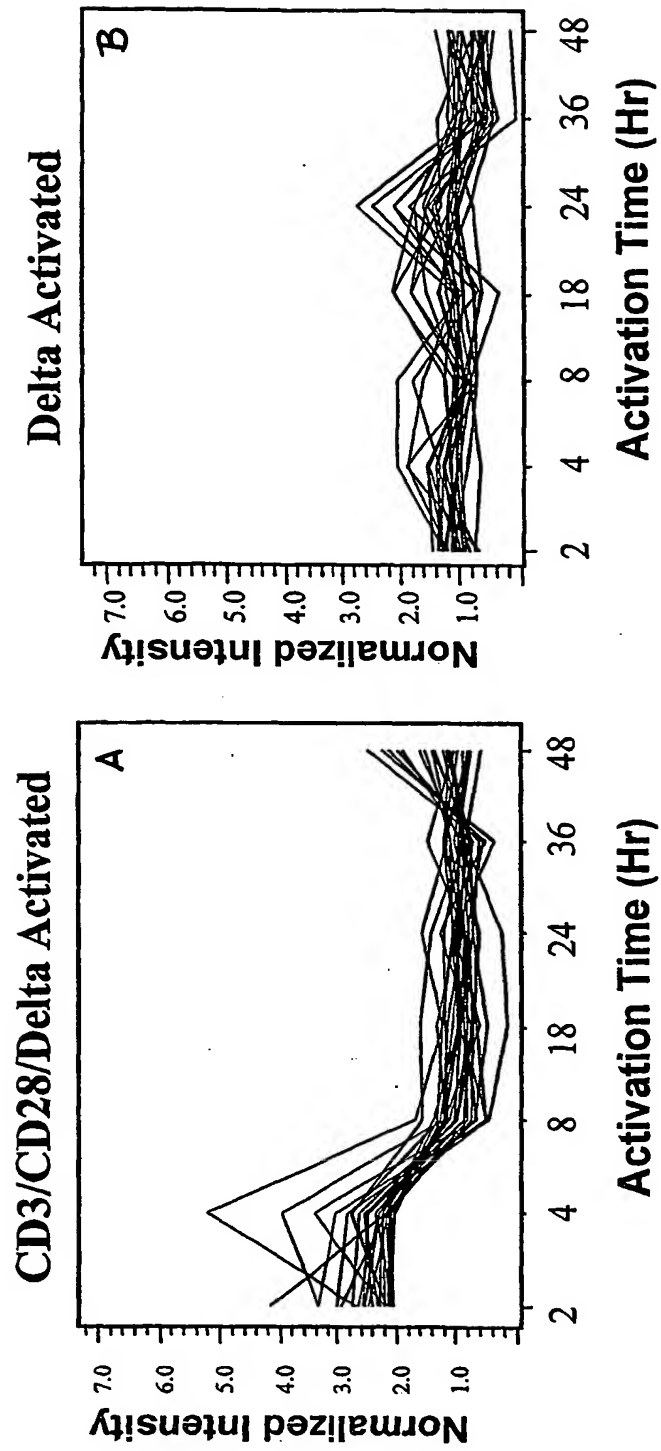


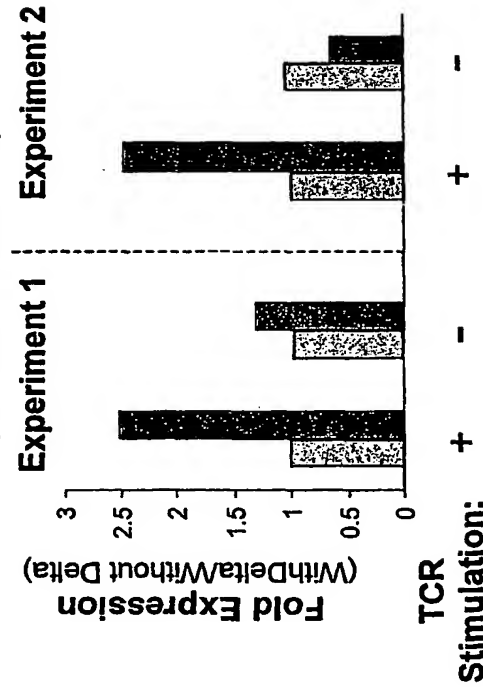
Figure 24B

Figure 24A

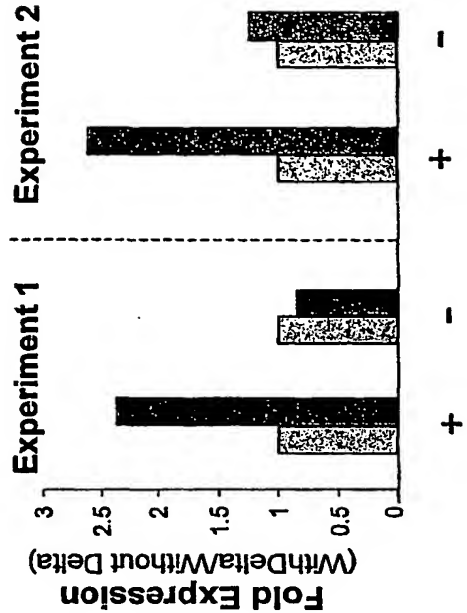
Figure 25: Delta Modulation of Anti-CD3/CD28 Activation of Gene Expression in Jurkat T-Cells



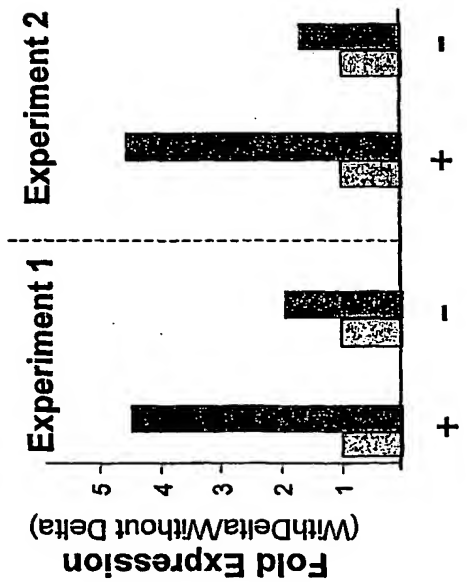
A. Cip1-interacting zinc finger protein (GenBank AA401210)



B. UMP-CMP kinase (R66137)



C. Helicase (AA843975)



Jurkat T-cell Culture:
Without Delta
With Delta

Figure 26

**Jurkat/FLNotch2 Clones : Transient Reporter Assay
+/- PMA/Ionomycin +/- hDLL1-Fc**

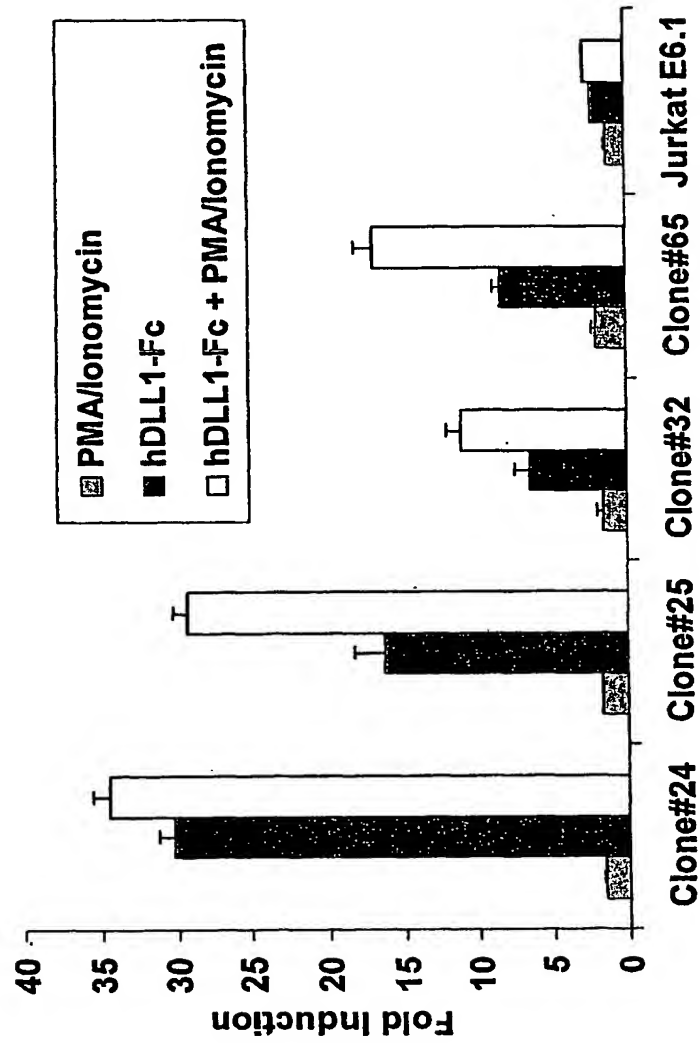


Figure 27

**Jurkat/FLNotch2 Clones : Transient Reporter Assay
Plate Bound hDLL1-Fc Dose Response Curves**

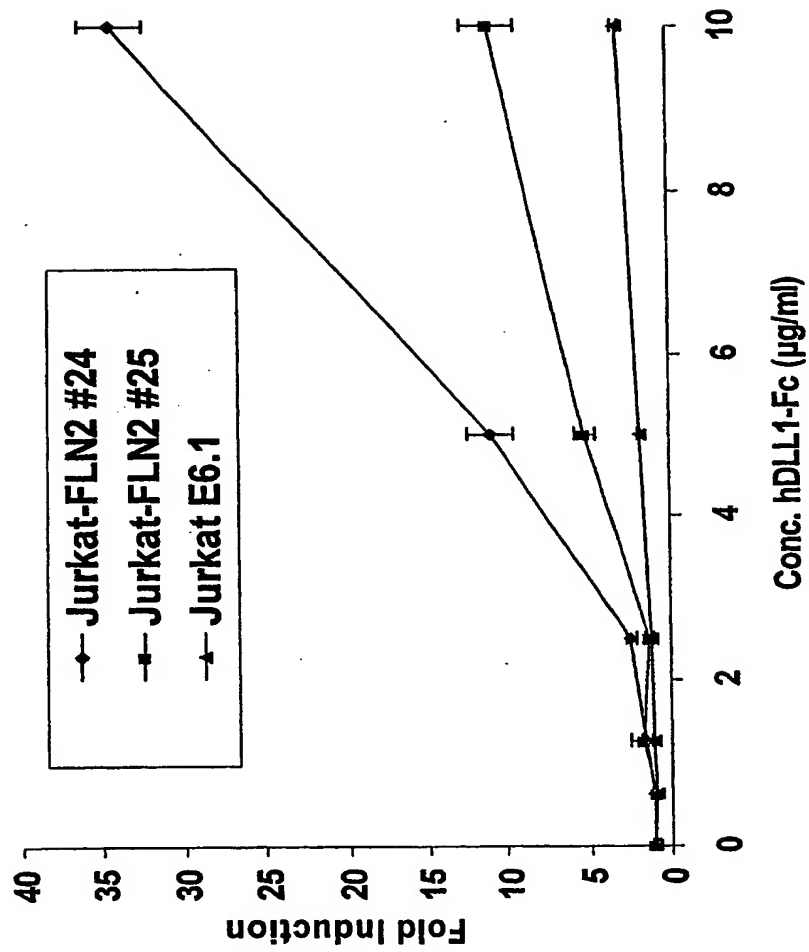


Figure 28

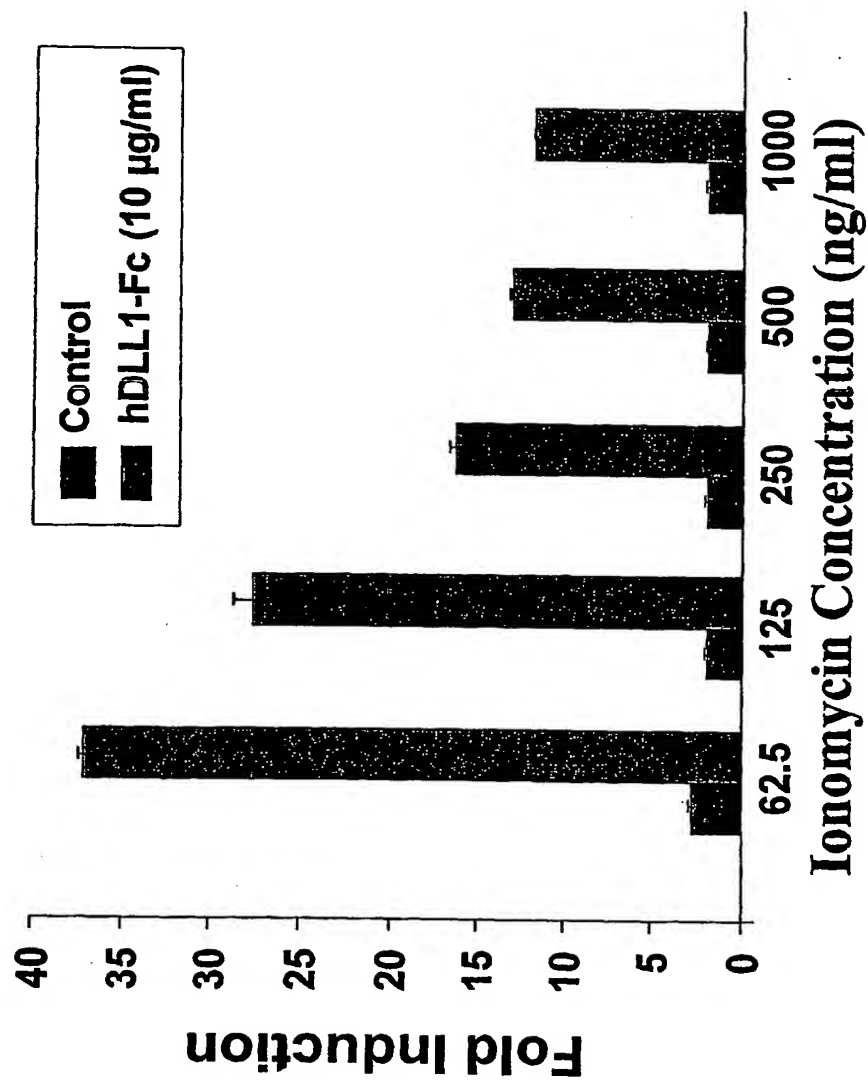
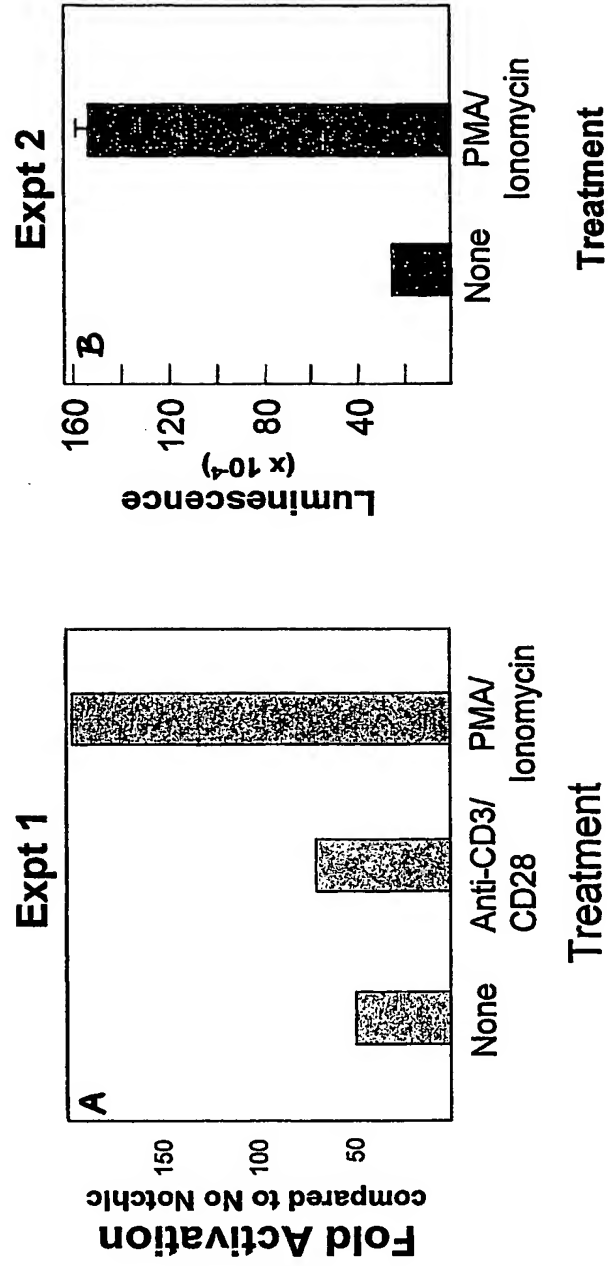


Figure 29



All Cells Transfected with CBF1-luciferase reporter + Nlc

Figure 30

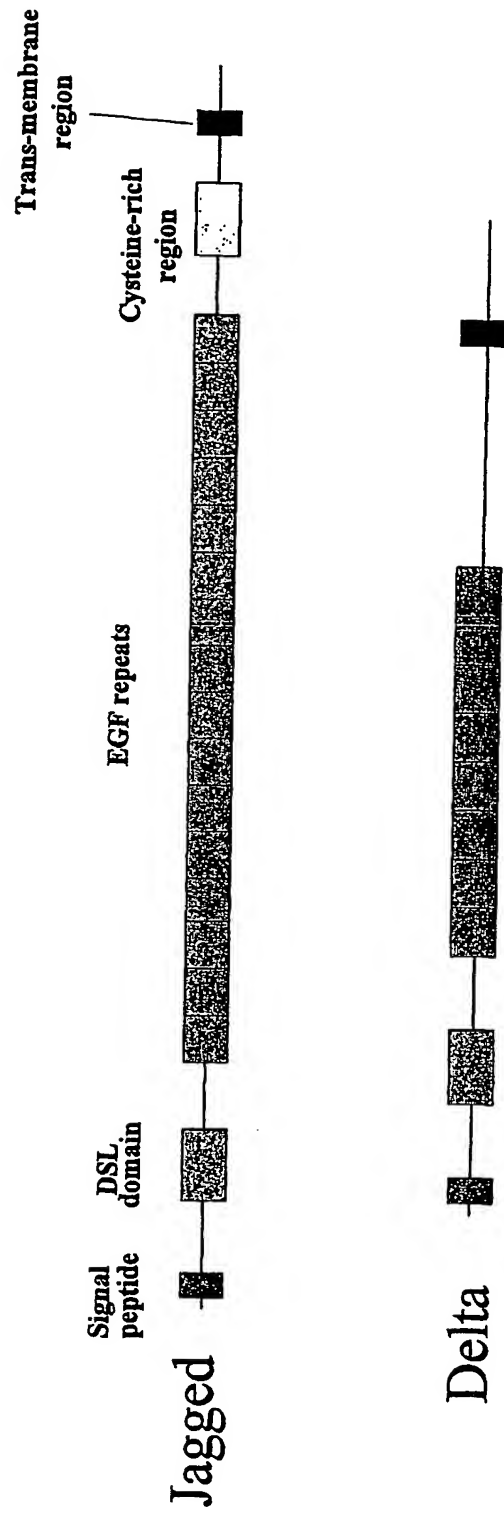


Figure 31

DL_DROME/164-226	WKTKSESQ.....YT-----SLEYDFEVTCDLNYGSCAKFCRPRDDSFHSTCSETGEIICLTGWQGDYC
DLL1_HUMAN/159-221	WSQDLHSSG.....RT-----DLKYSYRFVCDHHYEGCSVFCRPRDDAFGHFTCCGERGEKVCNFPCKGQPYC
DLL1_MOUSE/158-220	WSQDLHSSG.....RT-----DLRYSYRFVCDHHYEGCSVFCRPRDDAFGHFTCCGERGEKMCDDPGWKQGYC
DLL1_RAT/158-220	WSQDLHSSG.....RT-----DLRYSYRFVCDHHYEGCSVFCRPRDDAFGHFTCCGERGEKMCDDPGWKQGYC
DLL4_MOUSE/156-218	WRTEQNDT.....LT-----RLSYSYRVICSDNYGSCSRLCKKRRDDHFGHYEQQPDGSLCLPGWTGKYC
DLL4_HUMAN/155-217	WLDEQST.....LT-----RLSYSYRVICSDNYGSCSRLCKKRRDDHFGHYEQQPDGSLCLPGWTGEYC
Rat J1 (Q63722)	WQTLKQNTG.....LA-----HFEYQIRVTCDDHHYGFCKNFCRPRDDFTHYACDQNGKTCMEGWMGPEC
Mouse J1 (Q9QXX0)	WQTLKQNTG.....LA-----HFEYQIRVTCDDHHYGFCKNFCRPRDDFTHYACDQNGKTCMEGWMGPEC
Human J1 (O15122)	WQTLKQNTG.....VA-----HFEYQIRVTCDDHHYGFCKNFCRPRDDFTHYACDQNGKTCMEGWMGPEC
Chick J1 (Q90819)	WQTLKHNTG.....AA-----HFEYQIRVTCDDHHYGFCKNFCRPRDDFTHYACDQNGKTCMEGWMGPEC
Chick J2 (O42347)	WKTLQFNGP.....VA-----NFEVQIRVKCDENYYSALCNKFCGPRDDFVGHYTCQNGKACMEGWMGEEC
Mouse J2 (Q9QYE5)	WKSILHFSCH.....VA-----HLELQIRVRCDENYYSATCNKFCRPRDDFTHYTCQYGNKACMDGWMGKEC
Human J2 (Q90NK8)	WKSILHFSCH.....VA-----HLELQIRVRCDENYYSATCNKFCRPRDDFTHYTCQYGNKACMDGWMGKEC
Rat J2 (P97607)	WKSILHFSCH.....VA-----HLELQIRVRCDENYYSATCNKFCRPRDDFTHYTCQYGNKACMDGWMGKEC
Human J2 (Q9Y219)	WKSILHFSCH.....VA-----HLELQIRVRCDENYYSATCNKFCRPRDDFTHYTCQYGNKACMDGWMGKEC
SERR_DROME/221-283	WKELDHIGH.....NA-----RITYRVVQCAVITYINTCTTFCRPRDDQFGHYACGSEGOKLCLNGWQGVNC

Figure 32

(human Delta 1; GenBank Accession No. AF003522)

MGSRCALALAVLSALICQVWSSGVFELKLOEFVNNKGLGNRNCRCGAGPPACACTFFRVCLKHQASVSSEPPCTYSAVTFVLGVDSSFSLPDGGGA
 DSAFNPIRFPFGFTWFGTSLTIEALHTDSPDDLATENPERLISRATQRLTVCEWNSQDLHSSGRTDLKYSYRFVCDHYHTEGSCSVFCRPRDDAFG
 HFTCGERGEKVCNPGWKGPYCTEPICLPGCDEQHGFCDKPECECKRVGWQRYCDECTIRYPCGLHGTCCQQFWQNCNQEGWGGLCFNQDLYCTHHKPCKN
 GATCTNTGQGSYTCSCRPGYTGATCELGIDECDPSPCKNGGSCDLENSCTCPGFYKICELSAMTCADPCFNGGRCSDSPDGGYSCRCPVGYSGF
 NCEKKIDYSSSPCSNGAKCVDLGDAYLCRCQAGFSGRHCDNDVDDCASSPCANGZCRDGYNDFSCCTPPGYTGRNCRAPVSRCEHAPCHNGATCHERG
 HGTVCECARGYGGPNQFLPELPPGPAVVDLTEKLEGGGFFVAVCAVILVLMLLGCAVVVRLRQKRRPPADPCRCETEIMNNLANCQREK
 DISVSIIGATQIKRNTNKKADFHGDHSADKNGFKARYPAVDYNLVQDLKGDGTAVRDAHSKEDTKCQPGSSGEEKGTPPTLRGGEASERKRPDSDGCSSTSK
 DTKYQSVYVISEEKDECVIATEV

(human Delta 3; GenBank Accession No. NM_016941)

MYSPRMSGILLSQTVILALIFLPQTRPAGVTFELQTHSFGPGPGAPRSPCSARLPCKLFFRVCLKPGISEEAAE SPCALGAALSARGPVVTEQPGAPAPDL
 PLPDGLLQVDFRDAMPGETFSFIIETWREELGDQIGGPANSELLARVAGRRRLAAGGFWARDIQACAGWELRFSTRARCEPPAVGTACTRLCRPSRAPSRCGP
 GLRPCAPLEDECEAPLVCRAGCSPEHGFCQPCGECRCCLGWTGTLCTVPVSTSSCLSPRGPS SATTCGLVPGPGPCDGNPCANGGSCSETPRSFECTCPRG
 FYGLRCEVSGVTCADGFCFNGGLCVGGADPDSAYTCHCPGFGQSNCEKRVDRCSLQPCRNGLCLDLGHALRCRCRAGFAGPRCEHDLDDCAGRACANGG
 TCVEGGGAHRCSICALGFGGDCRERADPCAARPCAHGGRGYAHFSLVACAPGTMGARCFEFPVHFDGASALPAAPPGLRPGDPQRYLLPPALGLLVAAGV
 AGAALLLVHVRRRGHSQDAGSRLLAGTPEPSVHALPDALNNLRITQEGSGDGPSSSYDNNRDEDVDQGIYVISAPSIYAREVATFLFPPLHTGRAGQRQHL
 LFTYPS8ILSVK

(human Delta 4; GenBank Accession No. AF_253468)

MAAASRBSAGWALLILVALMQORAAGSGVFQLOLQEFINERGVLASGRPCFPGRTRFFRVCLKHQAVVSPGPGCTFTGTVSTPVLGNTNSFAVRDDSSGGGRN
 PLQLPFNFTWPGTFSILIIEAWHAPGDDLRPEALPPDALISKLAIQGSLAYGQNWLLDEQSTLRLRYSYRVICSDNYGDNCRSLCKKRNDFHGHVYVQOP
 DGNLSCLPQWTGEYQQOPICLSGCHEONGYCSKPAECLCRPGMWQGRICNECTPHNGCRHGTCTFWQCTCDEGWGGLFCDDQDIANYCTHHSPCKNGATCSNS
 GQRSYTCTCRPGYTGVDCELELSECDNPNCRNGGSKQOEDGYHCLCPPGYGLHCEHSTLSADSPCFNGGSCREERNQCANIACECPNFTGSCNCEKKVD
 RCTSNPCANGGQCLNRGPSRMCRCPGTCTYCELVSDCARNPCAHGGCTCHDLENGIMCTCPAGFSGRCEVRTSIDACASSPCENRATCTYDLDLSTDTFV
 CNCPYGFVSRCEFFVGLPPSPFPWAVSLGVGLAVLLVLLGMVAVRQLRLRRPDDGSRAMNNLSDFOKONLIPAAQLKNTNQKLELVDCGLDKSNCG
 KQONHTLDYNLAPGPIGRGTPGKTFPHSDKSLGEKAPILRLHSEKPECRISAICSPRD8MYQSVCLISEERNECVIATEV

Figure 33

(human Jagged 1; GenBank Accession No. U73936)

MRSPTRTGRSGRPLSLALLCALRAKVCASGQFELEILSMQNVNGLQNGKCCGARNPGDKCTROECDTYFKVCLKEYQSRVTAGGPCSPGSG
STPVTGENTFNILKASRGNDNRNRLVLPFSFAWPRSFTLLVANDSSNDTVQDPSIIKASHGMINPSPQWTLKQNTGVAFHEYQIRVTCDDYYVGF
GCNKF CRPRDDFFGHYACDQNGNKTCEGWMGPECNRAICRQGCSPKHGSKLPEDCRQYQWGLYCDKCIHPFGCVHGICNEFWQCLCEINWGGQ
LCDKDLNYCGTHQPCPLNGGTCNTPDKYQCSCEPGYSGENCEIAEHACLSDPCHNRGSKETSLGFCECSPGWTGPTCTNTIDDCSPNNCSHGCT
CQDLVNGFKVCVCPQWTGKTQOLDANECEAKPCVNASKCRNLIAHYCDCLFGWMQONCDININDCLQCQONASCRDLVNGYRCICPPGYAGDHCE
RDIDECASNPCLNGHCONEINRFQCLPTGFSNLQOLDIDYCEPNPQNGAQCYNRASDYFCCKPEDYEGKNCSHLKHCHRTTPEVIDSCTVAM
ASNDTPEGVRYISSNVCGPHGKCKSQSGKFTCDCKNGCTGTTCYCHENINDCESNPCRNNGGTCIDGVNSYKICISDGEWEGAYCEININDCSQNPCHNG
GTCDRLVANDFYCDCKNGWKGKTKCHSRDSQCDCEATCNNGTCYDECDKCMCPGGWEGTTONIARNSSCLPNPCNNGGTCVNVGESSFTCVCKEGWEG
PICAQNTNDCSPHPCYNSTGTCVDGNWYRCECAFAGAGDCRININECQSSPCAFATCVDEINGYRCVCPPHGSGAKQOEVSGRPCITMGSVIPDG
AKWDDDCNTCCCLNGRIACSKVWCGRPCILLHKGHSECPSGQSCIPILDDQCFVHPCTGCECRSSLSLOPVTKCTSDSYODNCANI TTFNKEEM
SPGLTTEHCISELNLNLTILKNVSAEYSIYIACEPPSPANNEIHVAISAEI RDCGNPIKEITDKIIDLVS KRDGNSLLAAVAEVRVORRPLKNRTD
FLVPLSSVLTVAMICCLVTAIFYWCLRKRRKPGSHTHSASEDNTNNVREQLNQIKNP IEKHGANTVP IKDYENKNSKSKIRTHNSEVEDDDMKH
QOKARFAKQPAYTILVDREKPPNGTPTKHENWNKQNDPLESAQSLNREYITV

(human Jagged 2; GenBank Accession No. AF029778)

MRAQGRGLPRRILLALLWVQARPMGYFELQLSALRNVNCELLSGACCDGGRTRAGCGGHDGCDTYVRVCLKEYQAKVTPTGPCSYGHGATPV
LGNSFTYLPAGAGDRARARAGGDDPGLVVI PQFAWPRSFTLLVANDSSNDTVQDPSIIKASHGMINPSPQWTLKQNTGVAFHEYQIRVTCDDYYVGF
RVRCDENYYSATCNKFCRPRNDFGHYACDQNGNKTCEGWMGPECNRAICRQGCSPKHGSKLPEDCRQYQWGLYCDKCIHPFGCVHGICNEFWQCLCEINWGGQ
QCNCETNWGLLCDKDLNYCGSHHPTNGGTCINAE PDQYRCTCPDGYSGRNCEKAEHACTSNPCANGGSCHEVPSGFECHCPSGHSGPTCALDIDE
CASNECAAGCTCVDQVDGFEICIEQWVGATCOLDANECEGKPCINAFSCKNLIGGYDCIIPGWKGINCHINVNDRCGQCQHGCTCKDLVNGYQCV
CPRGFGGRHCELERDKCASSPCHSGGLCEDLADGFHCHCPQSGFSGPLCEVDVLDCEPSPCRNGARCTNLEGDYICACPDGFGKNCVYPREPCPGGA
CRVIDGCGSDAGPMPGTAAAGVCGPHGRCVSPGGENFSCICDSGFTGTYCHENIDDCLOPQRNGGTCIDEVDAFRFCFCPSGWEGLCDTNPNDCL
PDPCHSRGRCVDLVNDFYCACDDGWKGTCHSREFCQDAYTC SNGGTCYDSGDTFRACACPPKWKSTCAVANKNSCLPNPCVNGGTCVSGSGASFSCI
CRDGEGRCTCHTNDNPLPCYNGGI CVDGVNWFCECAFGAGDCRININECQSSPCAFATCVDEINGYRCVCPPHGSGAKQOEVSGRPCITMGSVIPDG
SRGTFPHGSSWVEDCNSCRCLDGRDCSKVWCGWKPCLLAGPEALSAQCPGLORCLEKAPQCLRPDCEAWCEGAEESTPTCLPRSGHLNDC
ARLTHFNDRHVPQCTVGAICSGIRSLPATRAVARDRLVLLCDRASSGASAVEVAFSPARDLPDSLSLIQGAHAIVAATIQNGNSLLIATVE
VKVEVTVTGSGSTGLVFLVLCGAFSVLWCLACVLCVWTFKRRKERSRLPREESANNQWAPLNPINPIERPGGKDVLYQCRKNTPPPRADEA
LPGPAGHAAVREDEDEDLGRGEEDSLAEKFTSHKFTKDPGRSPGRPAHWASGPKVDNRVRSINEARYAKKE

Figure 34

HumanNotch1(AF308602)

MPPLAFLICLALLPALAARGPRCSQPGETCIINGCKCEANGTEACVCGGAFVGPCCODPNCLSTPCKNAGTCHVDRGVADYACSCALGFSGLC
 LTPLDNACLTPNCRNGGTCDLILTEYKRCRPPGWSGKSQQADPCASNPCANGGCLPFEASYICHPPSFHPTCRQDVNECGQKPRLCRHGGTCH
 NEVGSYRCVCRATHGTGNCERPYPVPCSPFCQNGGTCRPTGDTVTHECACLPFGTGNCEENIDDCPNCKCKGACAVDGVNTYNCPCPFEWTQCYCTE
 DVDECOLMENACQNGGTCHNTHGGINCVCVNGWTGEDCSENIDDCASAACFHGATCHDRVASFYCECPHGRTGLIHLNDACISNPNEGSNCDTNPV
 NGAICTCPSGYTGPAQSQDVDECSLGNPCEHAGKCINTLGSFECQCLQYTGPRCEIDVNECVSNPCQNDATCLDQICEFQCMKMPGYEGVHCEVN
 TDECASSPCLHNGRCLDKINERQCEPTGFTGHLQOYDVDECASTPCKNAGKCLDGNYYTCVTEGYTGTHCEVDIDECDPDPCHYGSKDGVATFT
 CLCRPGYTGHCETNINECSSQPCRLRGTCODPDNAYLCLCLKGTGENCEINLDDCAS8PCDSGTCILDKIDGYECACEPGYTGCMCNENIDECAGNP
 CHNGGTCEGLNGFTCRCPEGYHDPCLSEVNECNSNPCVHGACRDSLNGYKCDGPGWSGTNCDINNNECESNFCVNGGTCKDMTSGIVTCREGFS
 GPNQNTINECASNPCLNKGTCLDDVAGYKCNCLLPYTGTATCEVVLAPCAPSPCRNGCECRQSEDEYSFSCVCPAGAKQTCVDDINECVLSPCRHG
 ASCQNTHGXYRCHQOAGYSGRNCEIDDDCRPNPCHNGGSGTGTGINTAFCDCLPFGRTFCEEDINECASDPCRNANGANTCDVDSTCTCPAGFSGIH
 CENNTFDCITESCFNGGTCVDGINSFTCLCPPGFTGSYQOHVNECDSRPCLLGGTCQDGERGLHRCCTCPQGYTGPNCQNLVHWCDSSPCKNKGKCKWQT
 HTQYRCECPSGWTCLYCDVPSVCEVAARQGVQDVVARLCOHGGCLCVDAGNTHCRQOAGYTGSCYCEDLVDECSFSPCQNGATCTDYLGGYSCKCVAGY
 HGVCSEEDIECLSHPCQNGGTCLDLFNTYKSCSPRGTOGVHCEINVDDCNPPVDVYRS8PKCFNNGTCVDQVGGYSCCTCPPGFVGERCEGDVNECLS
 NPCDARGTQNCVQVNDHFCECRAGHTGERCESVINGCKKPKCKNGGTCAVANTARGFIKCPAGFTGATCENDARTCGSLRCLNGGTCTISGPRSP
 CLCLGPFTEGECQFPASSPCLGPNPCYNQGTCEPTSESPTFYRCLCPAKENGLLCHILDYSGGAGARDIPPLITEEACELPECOEDAGNKVCSLQCNN
 HACGWDGDCSLNFPKNCQSLQCKWYFSDCHDCSQNSAGCLDFGDCQRAEGQCNPLYDQYCKDHFSDGCHDQGCNSAECCEWDGLDCAEHVPE
 RLAAGTLVVVIMPEQLRNSSFHFLRELSRVLHNVVFKRDAHQOQMIFFYIGREEELRKHPIKRAAEGWAAFDALLGOVKASLLPGGSEGGRRRR
 LDPMVRSIVYLEIDNRQCVQASSQCFQSATDVAAFLGALASLSINIPTYKIEAVQSEFVPPPPAQLHFMVYAAAFFVLLFFVCCGVLLSRKRRRQ
 HGQWFFPEGEKVSASKKRRREFLGEDSVGLKPLKVASDGAALMDNQNEWDEDLTKKRETEPVVLPDLDDQTDHRQWTQQLDAADLRMSAMAPT
 PQCEVDADCMQVNVRGDGTFLMLIASCGGGLTEGNSEEDAPAVISDFIYQCASLHNQDRTGETALHLAARYSRSDAAKRLLEASADANIQDN
 MERTPLHAAVSADAQVFOILIRNRATDILDARMHDGTTPLILAARLAVEGMLLEDLNSHADVNAVDDLGKSAHLWAAAANNVDAAVVLLKNGANKMQ
 NNREETPLFLAAREGSYETAKVLLDHFANRDITDMDRLPRDIAQERMHDIVRLDEYNLVRSPQLHGAPLGGTPTLBPPLCSNPGYLSLKPQVQG
 KKVRRKPSKGLACGSKAKOLKARRKKSQDCKGLDSSGMLSDVDSLESPHGYLSDVASPFLILPSFPQOSPSPVPLNHLPGMPDTHLGIHLNVAAP
 ENAALGGGGLAFETGPPRLSHLPVAGSTSTVLGSSSGGALNTFYGGSTSLNGQCEWLRLQSGWVFNQYNPLGSAVAPGFLSTQAPSLQHGAVGPLH
 SSLAASALSQWMSYQGLPSTRLATQPHLVQTOQVQPOQLQWQOQNLQANLQOQQLQPPPPPPQPHLGVSAAASHLGRSFLSCEPSSQADVQPLGPS
 SLAVHTILPQESPALFTSLPSSILVPPFTAAQFLTPPSQHSYSSPVNDTPSHQLQVPEHPFLTPSPESPDQWSSSSPHSNVDWSEGVSSPPTSMQSQI
 ARTPEAFK

Figure 35

HumanNoteh2(AAA36377)

MPALRPAALLWALLMLCCAAPAHALQCRDGYEPCVNEGCMVYHNGTGYCKPEGLGEYQOHRDPCKNRCONGGTCVAQAMLKATCRCAAGF
 TGEDCOYSTSHPCFVSRPCLNGGTCMLSRDTYECTQVFTGKQWTDACLSPHONGSTCTTVANQFSCKLTGFTQKCEYVNECDIPGHC
 QHGETCLNLPGSYQCCPQFTGYCDLXVPCAPSPCVNGSTCRQTFTECNCLPGFEGSTCERNIDDCFNHRCQNGGVCDGVNTYNCRCPP
 QWTGQCTEDVDECLLPNACONGGTCANRNGGYGCVVNGWSDDCSENIDDCAFASCTPGSTCIDRVASFSCMCPEGKAGLILCHLDDACISNPC
 HKGALCDTNPLNGOYICTCPQGYKGAICTEDVDECAMANSNPCEHAKGVNTDGAFCCLKEVAGPRCEMDINECHSDPCQNDATCLDKIGFTC
 LCMPEFGVHCELEINECQSNPCVANGQCVDKVNFQCLPPGFTGPVCQIDDDCSSTPCINGAKCIDHPNGYECQCATGFTGVLCENIDNCDP
 DPCHHGQCCQDIDSYTICINPCYMGAI CSDQIDECVSSPCLNDGRCLDVGQYCNQOPGTSVNCENINFDCAENPCIHGICMDGTRYSCVCS
 GFTGQRCNIDIDECASNPCRKATCINGVNGFERCICPEGPHHPSYCSQVNECLSNPCIHGICMDGTRYSCVCS
 GGTCDNLVNGYRCTCKGFGKYNQVNIDECASNPCINQGTCEFDISGYTCHCVLPTGKNQOTVLAPCSPPNCEAAVCKESPNFESYTCCLAPG
 WQQRCTIDIDECISKPCMHGLCHNTQGSYMCCEPPGFSQMDCEIDDDCLANPCQNGGSCMDGVNTFSCILCPGFTGDKQOTDMNECLSEPCKN
 GGTCSDYVNSYTCCKOAGFDGVHCENNTINECTESSCFNGGTCVDSINSFSCILCPVGTGFCLEHEINECSSHPCINEGTCVDGLGYRCSCPLGYT
 GRNCOQLVNLCSRSPCKNKGTCVQKKAESQCLCPSGWAGAYCDVNVSCDIAASRRGVVHLQHSVCINAGNTHYCCQPLGYTGSYCEEQILDE
 CASNPCQHGAATCSDFIGGYRCECVPGYQGVNCEYEVDECONPCQNGGTCIDLVNHFKSCPPGTRGLICEENIDDCARGPHCLNGGQCCMDRIGSY
 SCRCLPGFACERCEGDINECLSNPCSEGSILDCIQLTNDYLCVCRSAFTGRHCTFVDVCPOMPCLNGGTCVAVASNPEDGFCRCPPGFSGARQCS
 SCGVKCRKGEQCVHTASGPRCFPSPRDCESGCASSPCQHGSSCHPQRPYISQCAPPPSGSRCELYTAPPSTPPATCLSLQYCADKARDGVCD
 EACNSHACQWDGDCSLTMENFWANCSSPLFCWDYINNQCDELNCTVECLFNFECCQNSKTCYDKYCADHEKDNHCNQCENSECCGWDGLDCAA
 DOPENLAEGTLVTVVAMPPEQLQDARSFTRALGTLHTNLRIKRDQSCELMVYPYIGEKSAAKKQRTSRSLPCEQOEQVAGSKVTELEIDNRQC
 VQSDHCFKNTDAAALASHAIQGTLSYFLVSVVSESLTPERTQLLYLLAVAVIILFIILGVIMAKRKRKHSGLWLPGEFTLRDASNHKRE
 PVQDAVGLKXLSVQVSEANLIGTCTSEHWVDEGQPKKVAEDEALLSEDDPIDRRPWTQOHLAADIRRTPSIALTPPOAEQEVVDVLDVNR
 GPDGCTPLMLASLRGSSDLSEDEDAEDSSANIITDLVYQASLOAQDRTGEMALHLAARYBRADAKRLIDAGADANAQDNMGRCTPLHAAVAA
 DAQGVFQILIRNRVTDIDARNDGTTPLIILAAVLAVGMAELINQADVNAVDDHGKSALHWAANVAVETLILKNGANRMDQDNKEETPLFL
 AAREGSYEAAKIILDFANRDITDHMDRLPRDVARDRMHDIVRLIDEYNTVSPPGTWTLSALSPVICGPNRSFSLKHTPMGKSRPSPAKSTM
 PTLSPNLAKEADKAGSRKKSLSKVQVLSVTLSPVDSLESPHTVSDTTSSEMITSPGILQASPNEMLATAPPAFVHAQHALSFSNLHEMQ
 FLAHGASTVLPVSVQVLSHHHTVSPGSGSAGSLSRLHPVFPVADWNRMEVNETQXNEMFCWVLAPEAGTHPGIAPQSRPPEGKHITTPREPLPI
 VTFQLTPKGSIAQAPAGAPQSTCCPFAVAGPLPTMQIPEMARLPSVAFPTAMPQDQVQVQFTLPAVHFFPASVGYKPTPTPSQHSYASNAER
 TPSHSHCHLQGEHPVLTTPSPESPDQWSSSSPHSASDWSVTTSTPTPGAGGCGRGPGCTHMSPEPPHNNMQVIA

Figure 36

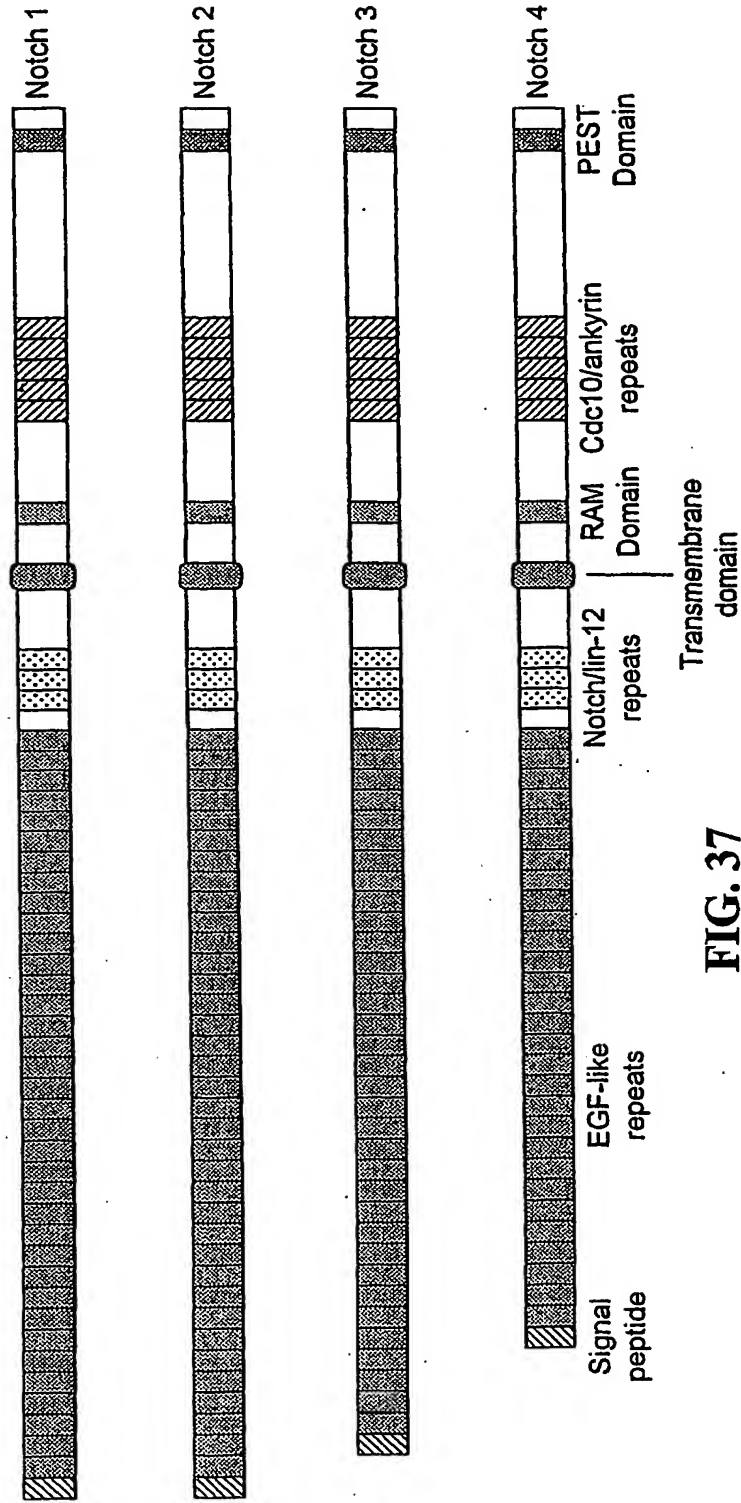
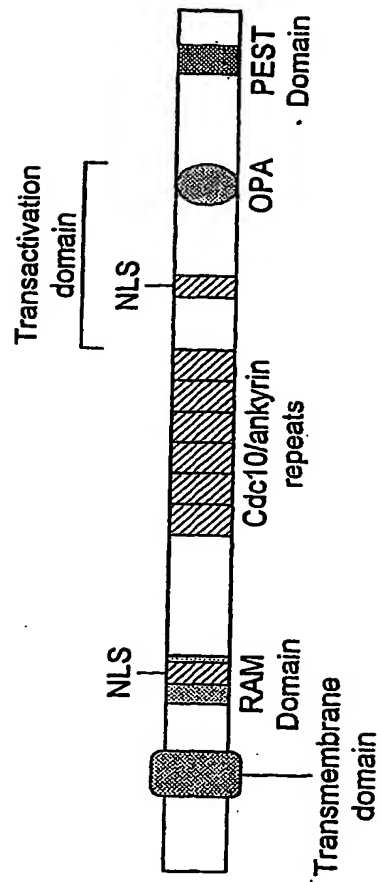


FIG. 37

**FIG. 38**